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(54) Title: **GENOME ANALYSIS**

(57) Abstract: The invention involves methods and materials related to the analysis of an organism's genome. Specifically, the invention provides methods and materials for identifying genomic markers, mapping genomic markers, and identifying genomic sequences that contribute to specific traits. For example, the invention provides methods and materials that can be used to assign functions to genes by genetically mapping a large collection of nucleic acid fragments such as sequence-defined cDNAs.

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